

 An SAE International Group	AEROSPACE MATERIAL SPECIFICATION	SAE AMS-T-21014A	
		Issued	1998-09
		Cancelled	2008-03
		Superseded by ASTM B 777	
Tungsten Base Metal, High Density			

RATIONALE

AMS-T-21014 has been designated Cancelled and Superseded because equivalent technical requirements are provided by ASTM B 777.

CANCELLATION NOTICE

This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of March, 2008, and has been superseded by ASTM B 777. The requirements of the latest issue of ASTM B 777 shall be fulfilled whenever reference is made to the cancelled AMS-T-21014. By this action, this document will remain listed in the Numerical Section of the Index of Aerospace Material Specifications, noting that it has been superseded by ASTM B 777.

Cancelled specifications are available from SAE.

AMS7725 covers the same materials but with additional requirements for structural applications.

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NOTICE

This document has been taken directly from U.S. Military Specification MIL-T-21014D, Amendment 1 and contains only minor editorial and format changes required to bring it into conformance with the publishing requirements of SAE technical standards. The initial release of this document is intended to replace MIL-T-21014D, Amendment 1. Any part numbers established by the original specification remain unchanged.

The original Military Specification was adopted as an SAE standard under the provisions of the SAE Technical Standards Board (TSB) Rules and Regulations (TSB 001) pertaining to accelerated adoption of government specifications and standards. TSB rules provide for (a) the publication of portions of unrevised government specifications and standards without consensus voting at the SAE Committee level, and (b) the use of the existing government specification or standard format.

Under Department of Defense policies and procedures, any qualifications requirements and associated qualified products lists are mandatory to DOD contracts. Any requirement relating to qualified products lists (QPL's) has not been adopted by SAE and is not part of this technical report.

1. SCOPE:

1.1 Scope:

This specification covers the requirements for four classes of machinable, high density tungsten base metal produced by consolidation of metal powder mixtures whose composition is mainly tungsten. This material may be used for uncoated parts or parts that may be coated with other materials for protection against corrosion and abrasion such as, electrodeposited and vacuum deposited cadmium and electrodeposited chromium. Detailed requirements for coatings should be covered in the applicable part drawing, when required.

1.2 Classification:

The tungsten base metal shall be of the following classes (see Tables I and II), as specified (see 6.2.1).

<u>Class</u>	<u>Nominal Density (g/cc)</u>
1	17
2	17.5
3	18
4	18.5

2. APPLICABLE DOCUMENTS:

The following publications, of the issues in effect on the date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

2.1 ASTM Publications:

Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM B 311	Density of Cemented Carbides
ASTM D 3951	Commercial Packaging
ASTM E 3	Metallographic Specimens, Preparation of
ASTM E 8	Tension Testing of Metallic Materials
ASTM E 18	Rockwell Hardness and Rockwell Superficial Hardness of Metallic Materials
ASTM E 407	Microetching Metals and Alloys
ASTM A 600	Tool Steel, High Speed

2.2 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

MIL-STD-129	Marking for Shipment and Storage
MIL-STD-130	Identification Marking of U.S. Property
MIL-STD-2073/1	DoD Material, Procedures for Development and Application of Packaging Requirements